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Depositing Fluid Specimens on
Substrates, Resulting Ordered Arrays,
Techniques for Analysis of Deposited Arrays
Abstract of the Disclosure

Fluid is deposited in spots using supported, compliant pin arrangements, supplied by a local reservoir. Pin arrangements in the form of reciprocating and rotating devices are shown. Supply of the pins by mobile local subreservoirs limit the range of travel between drop-pickup and drop deposit. Local reservoirs in the form of circular rings and large pins are disclosed. Compliance is achieved by using spring and flexure arrangements. Some embodiments employ planer flexures to mount the pin and constrict its movement. Such deposit techniques are shown used in many analytical, reactive, and productive conditions. Combination of the use of the versatile, high density array or with a flying mini objective, wide field scanning microscope is disclosed. Combination with other sub systems adds to the versatility of the system.

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